

Title (en)

METHOD, SYSTEM AND APPARATUS FOR MACHINING GEAR WHEELS

Title (de)

VERFAHREN, SYSTEM UND VORRICHTUNG ZUM BEARBEITEN VON ZAHNRÄDERN

Title (fr)

PROCEDE, SYSTEME ET APPAREIL POUR USINER DES ROUES DENTEES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2014001941A1] A method for machining a gearwheel by means of stock removal using a numerical-control machine tool with at least five machining axes comprises the steps of defining theoretical prefinishing surfaces and theoretical finishing surfaces of the gearwheel; calculating a line of intersection between the theoretical prefinishing surface and finishing surface; using as a real prefinishing surface the theoretical prefinishing surface and as a real finishing surface for each tooth the part of the theoretical finishing surface situated between the tip of the tooth and the said intersection line; operating the machine so as to perform a first gearwheel machining operation in order to form the said real prefinishing surface and then operating the machine so as to perform a second gearwheel machining operation in order to form the said real finishing surface. Also described are an apparatus for producing commands and a machining system (10) which comprises a machine tool with at least five axes, data input means and calculation and processing and command units.

IPC 8 full level

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CPC (source: EP KR US)

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